



Applicant: J. Thomas O'Brien
Application No.: 09/981,386

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. - 16. (Canceled)

17. (Currently Amended) A wireless dual use user equipment (UE) capable of operating in a cordless and cellular environment, the dual use user equipment comprising:

a modulation and demodulation device for modulating/demodulating data using a plurality of modulation/demodulation schemes, the plurality of modulation/demodulation schemes comprise a cordless scheme for communicating with a sub base and a cellular scheme for communicating with a base station;

a modulation and demodulation controller for switching the modulation/demodulation scheme of the modulation/demodulation device between the cordless scheme and the cellular scheme such that a transition between said cordless and cellular schemes is transparent to a user sending or receiving a communication signal from said dual use UE; the modulation and demodulation controller initiating operation in the cellular environment by sending a handoff

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Application No.: 09/981,386

signal to a sub base responsive to a determination that said UE is leaving a cordless environment and switching to the cellular scheme; whereby [[a]] the sub base in response to the sent handoff signal ceasing ceases communications with a cellular base station and whereby the UE in response to the ceased communications between the sub base and the cellular base station, begins communicating directly with the cellular base station.

18. - 20. (Canceled).

21. (Original) The dual use UE of claim 17 wherein the dual use UE determines it is leaving the cordless environment by measuring a received signal strength of a sub base transmission.

22. (Previously Presented) The dual use UE of claim 21 wherein the modulation and demodulation controller switches to the cellular environment when said signal strength is below a predetermined threshold.

23. (Previously Presented) The dual use UE of claim 17 wherein the dual use UE determines it is entering the cordless environment by detecting a sub base pilot signal.

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Application No.: 09/981,386

24. (Previously Presented) The dual use UE of claim 23 wherein the dual use UE, upon detecting the sub base pilot signal, sends a handoff signal to the sub base; whereby the sub base commences communicating to the cellular network and the dual use UE begins communicating with the sub base.